

IN THE CLAIMS-

Cancel claims 2, 15, 16 and 18.

Rewrite claim 1 as follows:

1 --1. (Amended) A method of processing and storing data in
2 a computer system including processor circuitry, and a data
3 storage device, the method comprising the steps of:
4 storing first and second sets of records in
5 separate first-in, first-out data structures, respectively,
6 on the data storage device, the first and second sets of
7 records being of different data resolutions and
8 corresponding to overlapping periods of time;
9 operating the processor circuitry to receive data
10 collected over a period of time; and
11 operating the processor circuitry to update at
12 least one record in each of the stored first and second
13 sets of records with the received data such that a previous
14 record included in each of the first and second data
15 structures is replaced. --.

| Claim 3, line 1 Change "2" to --1--;

| Claim 4, line 1 Change "2" to --1--;

| Claim 5, line 1 Change "2" to --1--; and

| Claim 11, line 4 After "records in", insert --the--.

Rewrite claim 12 as follows:

Q 1 --12. (Amended) A method of collecting and processing
2 network traffic data, comprising the steps of:
3 periodically collecting network traffic data from
4 a data probe,
5 generating a database of network traffic
6 information from the collected network traffic data, the
7 database comprising a plurality of network traffic data
8 sets of differing degrees of data resolution corresponding
9 to overlapping network traffic time periods,
10 storing each of the plurality of network traffic
11 data sets in a different first-in, first-out data structure
12 wherein a limited amount of data storage space is used for
13 each of the different first-in, first out data structures,
14 and
15 overwriting the oldest data records in the
16 first-in, first-out data structure used to store one of the
17 network traffic data sets, when the limited amount of data
18 storage space used for said first-in, first-out data
19 structure is filled with records. --.

Rewrite claim 17 as follows:

Q 1 --17. (Amended) A system for monitoring network traffic
2 data, comprising:
3 a plurality of network traffic data probes for
4 collecting network traffic information;
5 processor circuitry-coupled to the network traffic
6 probes for receiving data therefrom; and

7 a data storage device for storing a network traffic
8 database generated by the processor circuitry using data
9 collected by the network traffic data probes, the data
10 storage device including:

11 a plurality of data structures, each data
12 structure being a first-in, first-out data structure, each
13 one of the plurality of data structures including network
14 traffic data:

15 a) stored at a different resolution than the
16 resolution at which network traffic data is stored in the
17 other ones of the plurality of data structures; and

18 b) corresponding to a period of time which
19 overlaps the period of time for which network traffic data
20 is stored in the other ones of the plurality of data
21 structures; and

22 means for overwriting the oldest data records in the
23 first-in, first-out data structure used to store one of the
24 network traffic data sets, when the limited amount of data
25 storage space used for said first-in, first-out data
26 structure is filled with records. --.

Claim 19, line 1 Change "18" to --17--;

Claim 20, line 1 Change "18" to --17--;

Claim 23, line 1 Change "18" to --17--; and

Claim 24, line 1 Change "18" to --17--.